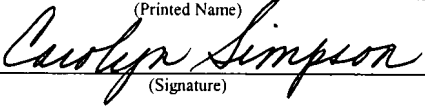


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dougherty et al.
Title: SYSTEM AND METHOD
FOR MONITORING A
VEHICLE BATTERY
Appl. No.: 10/587,197
International Filing Date: 01/26/2005
371(c) Date:
Examiner: Not yet assigned
Art Unit: Not yet assigned
Conf. No.: 7049

CERTIFICATE OF EXPRESS MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
EV 962270872 US	4/20/07
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Carolyn Simpson	
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR

§1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

The relevance of the foreign-language documents is described in the English-language abstracts attached thereto. An English translation of the foreign-language documents is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609).

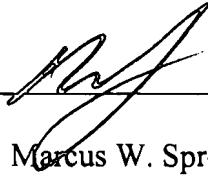
Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 06-1447.

Respectfully submitted,

Date 4/20/2007

FOLEY & LARDNER LLP
Customer Number: 26371
Telephone: (313) 234-7150
Facsimile: (313) 234-2800

By 
Marcus W. Sprow
Attorney for Applicant
Registration No. 48,580

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				Group Art Unit	Not yet assigned
				Examiner Name	Not yet assigned
Sheet	1	of	9	Attorney Docket Number	054821-0514

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	2005/0062458	A1	Koch et al.	03-24-2005	
	A2	2005/0052158	A1	Meissner	03-10-2005	
	A3	2005/0029867	A1	Wood	02-10-2005	
	A4	2004/0222768	A1	Moore et al.	11-11-2004	
	A5	2004/0212367	A1	Dougherty	10-28-2004	
	A6	2004/0189257	A1	Dougherty et al.	09-30-2004	
	A7	2004/0160215	A1	Richter et al.	08-19-2004	
	A8	2004/0150406	A1	Laig-Hoerstedbrock	08-05-2004	
	A9	2004/0113629	A1	Laig-Hoerstedbrock et al.	06-17-2004	
	A10	2004/0041539	A1	Streuer	03-04-2004	
	A11	2004/0024546	A1	Richter	02-05-2004	
	A12	2004/0021468	A1	Dougherty et al.	02-05-2004	
	A13	2003/0236656	A1	Dougherty	12-25-2003	
	A14	2003/0215699	A1	Meissner et al.	11-20-2003	
	A15	2003/0142228	A1	Flach et al.	07-31-2003	
	A16	2003/0082440	A1	Mrotek et al.	05-01-2003	
	A17	2003/0047366	A1	Andrew et al.	03-13-2003	
	A18	2003/0025506	A1	Arai	02-06-2003	
	A19	2002/0031700	A1	Wruck et al.	03-14-2002	
	A20	2002/0026252	A1	Wruck et al.	02-28-2002	
	A21	2002/0008495	A1	Dougherty et al.	01-24-2002	
	A22	7,061,246	B2	Dougherty et al.	06-13-2006	
	A23	7,042,226	B2	Laig-Horstedbrock et al.	05-09-2006	
	A24	7,012,434	B2	Koch	03-14-2006	
	A25	6,982,540	B2	Richter et al.	01-03-2006	
	A26	6,967,466	B2	Koch	11-22-2005	
	A27	6,949,911	B2	Laig-Horstedbrock et al.	09-27-2005	
	A28	6,909,261	B2	Laig-Horstedbrock et al.	06-21-2005	
	A29	6,861,842	B2	Baeuerlein et al	03-01-2005	
	A30	6,777,914	B2	Ullrich et al	08-17-2004	
	A31	6,727,708	B1	Dougherty et al.	04-27-2004	
	A32	6,707,278	B2	Harmon	03-16-2004	
	A33	6,674,266	B2	Koch	01-06-2004	
	A34	6,653,818	B2	Laig-Horstedbrock et al.	11-25-2003	
	A35	6,608,482	B2	Sakai et al.	08-19-2003	
	A36	6,606,227	B2	Rapsinski et al.	08-12-2003	
	A37	6,600,293	B2	Kikuchi	07-29-2003	

Examiner Signature	Date Considered
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				Group Art Unit		Not yet assigned
				Examiner Name		Not yet assigned
				Attorney Docket Number		054821-0514
Sheet	2	of	9			

U.S. PATENT DOCUMENTS					
	U.S. Patent Document				
	A38	6,600,237	B1	Meissner	07-29-2003
	A39	6,556,019	B2	Bertness	04-29-2003
	A40	6,534,992	B2	Meissner et al.	03-18-2003
	A41	6,522,148	B2	Ochiai, et al.	02-18-2003
	A42	6,515,456	B1	Mixon	02-04-2003
	A43	6,515,452	B2	Choo	02-04-2003
	A44	6,507,194	B2	Suzuki	01-14-2003
	A45	6,495,990	B2	Champlin	12-17-2002
	A46	6,472,875	B1	Meyer	10-29-2002
	A47	6,452,361	B2	Dougherty et al.	09-17-2002
	A48	6,448,776	B2	Meissner et al.	09-10-2002
	A49	6,445,158	B1	Bertness et al.	09-03-2002
	A50	6,441,585	B1	Bertness	08-27-2002
	A51	6,424,157	B1	Gollomp et al.	07-23-2002
	A52	6,417,668	B1	Howard et al.	07-09-2002
	A53	6,392,415	B2	Laig-Horstebroek et al.	05-21-2002
	A54	6,392,414	B2	Bertness	05-21-2002
	A55	6,392,389	B1	Kohler	05-21-2002
	A56	6,388,450	B2	Richter et al.	05-14-2002
	A57	6,388,421	B2	Abe	05-14-2002
	A58	6,369,578	B1	Crouch, Jr. et al.	04-09-2002
	A59	6,369,577	B1	Cho	04-09-2002
	A60	6,362,599	B1	Turner et al.	03-26-2002
	A61	6,362,598	B2	Laig-Horstebroek et al.	03-26-2002
	A62	6,331,762	B1	Bertness	12-18-2001
	A63	6,304,059	B1	Chalasani et al.	10-16-2001
	A64	6,300,763	B1	Kwok	10-08-2001
	A65	6,296,593	B1	Gotou et al.	10-02-2001
	A66	6,271,645	B1	Schneider et al.	08-07-2001
	A67	6,271,642	B1	Dougherty et al.	08-07-2001
	A68	6,268,712	B1	Laig-Horstebroek et al.	07-31-2001
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	A70	6,242,921	B1	Dougherty et al.	06-05-2001
	A71	6,222,341	B1	Dougherty et al.	04-24-2001
	A72	6,191,590	B1	Klutz et al.	02-20-2001
	A73	6,163,133		Laig-Horstebroek et al.	12-19-2000
	A74	6,160,382		Yoon et al.	12-12-2000
	A75	6,144,185		Dougherty et al.	11-07-2000
	A76	6,118,275		Yoon et al.	09-12-2000

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				First Named Inventor	Thomas J. Dougherty
				Group Art Unit	Not yet assigned
				Examiner Name	Not yet assigned
Sheet	3	of	9	Attorney Docket Number	054821-0514

U.S. PATENT DOCUMENTS

		U.S. Patent Document			
	A77	6,118,252		Richter	09-12-2000
	A78	6,091,325		Zur et al.	07-18-2000
	A79	6,087,808		Pritchard	07-11-2000
	A80	6,057,666		Dougherty et al.	05-02-2000
	A81	6,037,777		Champlin	05-14-2000
	A82	6,037,749		Parsonage	03-14-2000
	A83	6,016,047		Notten et al.	01-18-2000
	A84	5,990,660		Meissner	11-23-1999
	A85	5,977,654		Johnson et al.	11-02-1999
	A86	5,965,954		Johnson et al.	10-12-1999
	A87	5,936,383		Ng et al.	08-10-1999
	A88	5,898,292		Takemoto et al.	04-27-1999
	A89	5,896,023		Richter	04-20-1999
	A90	5,818,333		Yaffe et al.	10-06-1998
	A91	5,818,116		Nakae et al.	10-06-1998
	A92	5,808,445		Aylor et al.	09-15-1998
	A93	5,808,367		Akagi et al.	09-15-1998
	A94	5,773,977		Dougherty	06-30-1998
	A95	5,761,072		Bardsley, Jr. et al.	06-02-1998
	A96	5,744,963		Arai et al.	04-28-1998
	A97	5,744,936		Kawakami	04-28-1998
	A98	5,721,688		Bramwell	02-24-1998
	A99	5,711,605		Reher et al.	01-27-1998
	A100	5,698,965		York	12-16-1997
	A101	5,680,050		Kawai et al.	10-21-1997
	A102	5,656,915		Eaves	08-12-1997
	A103	5,631,534		Lewis	05-20-1997
	A104	5,578,915		Crouch, Jr. et al.	11-26-1996
	A105	5,572,136		Champlin	11-05-1996
	A106	5,563,496		McClure	10-08-1996
	A107	5,552,642		Dougherty et al.	09-03-1996
	A108	5,549,984		Dougherty	08-27-1996
	A109	5,488,283		Dougherty et al.	01-30-1996
	A110	5,449,570		Inkmann et al.	09-12-1995
	A111	5,439,577		Weres et al.	08-08-1995
	A112	5,428,560		Leon et al.	06-27-1995
	A113	5,416,402		Reher et al.	05-16-1995
	A114	5,412,323		Kato et al.	05-02-1995

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Sheet	4	of	9	Attorney Docket Number	054821-0514

U.S. PATENT DOCUMENTS

		U.S. Patent Document			
	A115	5,404,129		Novak et al.	04-04-1995
	A116	5,385,126		Matthews et al.	01-31-1995
	A117	5,381,096		Hirzel	01-10-1995
	A118	5,352,968		Reni et al.	10-04-1994
	A119	5,321,627		Reher	06-14-1994
	A120	5,316,868		Dougherty et al.	05-31-1994
	A121	5,281,919		Palanisamy	01-25-1994
	A122	5,280,231		Kato et al.	01-18-1994
	A123	5,223,351		Wruck	06-29-1993
	A124	5,204,610		Pierson et al.	04-20-1993
	A125	5,162,164		Dougherty et al.	11-10-1992
	A126	5,159,272		Rao et al.	10-27-1992
	A127	5,130,699		Reher et al.	07-14-1992
	A128	5,079,716		Lenhardt et al.	01-07-1992
	A129	5,055,656		Farah et al.	10-08-1991
	A130	5,032,825		Kuznicki	07-16-1991
	A131	5,002,840		Klebenow et al.	03-26-1991
	A132	4,952,861		Horn	08-28-1990
	A133	4,943,777		Nakamura et al.	07-24-1990
	A134	4,937,528		Palanisamy	06-26-1990
	A135	4,888,716		Ueno	12-19-1989
	A136	4,876,513		Brilmyer et al.	10-24-1989
	A137	4,876,513		Brilmyer et al.	10-24-1989
	A138	4,816,736		Dougherty et al.	03-28-1989
	A139	4,719,427		Morishita et al.	01-12-1988
	A140	4,665,370		Holland	05-12-1987
	A141	4,659,977		Kissel et al.	04-21-1987
	A142	4,642,600		Gummelt et al.	02-10-1987
	A143	4,642,600		Gummelt et al.	02-10-1987
	A144	4,595,880		Patil	06-17-1986
	A145	4,322,685		Frailing et al.	03-30-1982
	A146	4,237,411		Kothe et al.	12-02-1980
	A147	4,207,611		Gordon	06-10-1980
	A148	4,193,025		Frailing et al.	03-11-1980
	A149	4,153,867		Jungfer, deceased et al.	05-08-1979
	A150	3,906,329		Bader	09-16-1975
	A151	1,807,439		Ryan	05-26-1931

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A152	AU	664513		Reher et al.	006-08-1995		
	A153	AU	9722004		Koeppel et al.		No abstract-no patent	
	A154	BR	9907825		Dougherty et al.	10-24-2000	Abstract-no patent	
	A155	BR	9802377		Kluetz et al.	06-29-1999		
	A156	BR	9804628		Richter	03-11-1999		
	A157	BR	9401132		Reher et al.	11-15-1994		
	A158	BR	8907224		Brilmyer et al.	03-05-1991		
	A159	CA	1230378		Rabenstein et al.	12-15-1987		
	A160	CA	2116910		Reher et al.	09-13-1994		
	A161	CN	1290418		Dougherty et al.	04-04-2001	Abstract-no patent	
	A162	CZ	9903638		Laig-Hoerstebroek et al.	07-12-2000		
	A163	DE	500 06 481		Richter et al.	06-24-2004	No Abstract or Patent	
	A164	DE	598 09 202		Meissner	09-11-2003	No Abstract or Patent	
	A165	DE	598 09 131		Kluetz et al.	09-04-2003	No Abstract or Patent	
	A166	DE	101 61 640	A1	Koch	07-10-2003		
	A167	DE	101 53 916	A1	Ullrich et al.	05-15-2003		
	A168	DE	101 28 033	A1	Laig-Horstebroek et al.	12-12-2002		
	A169	DE	101 07 583	A1	Meissner et al.	08-29-2002		
	A170	DE	101 58 029	A1	Kwok	06-06-2002		
	A171	DE	101 46 556	A1	Turner	04-25-2002		
	A172	DE	100 45 622	A1	Kohler	03-28-2002		
	A173	DE	100 21 161	A1	Laig-Horstebroek et al.	10-31-2001		
	A174	DE	100 08 354	A1	Laig-Horstebroek et al.	08-30-2001		
	A175	DE	93 21 638	U1	Champlin	08-30-2001		
	A176	DE	101 05 508	A1	Schneider et al.	08-23-2001		
	A177	DE	100 02 473	A1	Richter et al.	07-26-2001		
	A178	DE	100 00 729	A1	Meissner et al.	07-12-2001		
	A179	DE	199 52 693	A1	Akkumulatorenfabrik Moll GmbH & Co.	05-23-2001		
	A180	DE	199 60 761	C1	Schöner et al.	05-23-2001		
	A181	DE	693 28 513	T2	Reher et al.	08-31-2000		
	A182	DE	694 23 918	T2	Shelton et al.	08-03-2000		
	A183	DE	198 47 648	A1	Laig-Horstebroek et al.	04-20-2000		
	A184	DE	691 31 276	T2	Champlin	12-30-1999		
	A185	DE	198 03 312	A1	Meisner	08-05-1999		

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				First Named Inventor		Thomas J. Dougherty
				Group Art Unit		Not yet assigned
				Examiner Name		Not yet assigned
Sheet	6	of	9	Attorney Docket Number		054821-0514

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A186	DE	197 50 309	A1	Richter	05-20-1999		
	A187	DE	197 25 204	C1	Klutz et al.	04-08-1999		
	A188	DE	692 26 319	T2	Reher et al.	12-03-1998		
	A189	DE	195 43 874	A1	Yazaki Corp.	05-30-1996		
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	A191	DE	689 24 169	T2	Alliedsignal, Inc.	03-21-1996		
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	A221	EP	0 560 468	A1	Reher	09-15-1993		
	A222	EP	0 516 336	B1	Fang	12-02-1992		
	A223	EP	0 161 398	A1	Gummelt et al.	11-21-1985		
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	A225	EP	2798203				No Patent or Abstract	
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	A227	ES	2218052		Richter et al.	11-16-2004		
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	A252	International Search Report for PCT/US2005/002428, date of mailing 05/27/2005. 2 pages.	
	A253	Intelec '88 – Tenth International communications Energy Conference, "A look at the Impedance of a Cell – S.L. DeBardelaben, New York Telephone Company," bearing a designation "October 30-November 2, 1988." (6 sheets)	
	A254	Battery Alert, Ltd., "The Easy-to-Install Battery Deterioration Warning Device", 12 Volt Model (BA101) Advertisement (2 sheets)	
	A255	Journal of Applied Electrochemistry, Volume 10 Number 1, January 1980 – The Impedance of Electrical Storage Cells – N.A. Hampson, s.A.G.R. Karunathilaka, Department of Chemistry, R. Leek, Department of Electronic and Electrical Engineering, University of Technology, Loughborough, Leicestershire, UK (11 sheets).	
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	A257	HSR-003 Application Notes, Hermetic Switch, Inc., Highway 92, Post Office Box 2220, Chickasha, OK 73023, http://www.hermeticswitch.com/RS_fm.htm , available at least by 01/06/03 (1 page)	
	A258	How It Works: Reed Switch Motor, http://members.tripod.com/simplemotor/rsmotor.htm , available at least by 01/06/03, 4 pages.	
	A259	Reed Relay Technical & Applications Information, COTO Technology, 55 Dupont Drive, Providence, RI, pgs. http://www.cotorelay.com/ReedTech.pdf , available at least by 01/06/03, 37-43.	
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	A264	STAN GIBILISCO and NEIL SCLATER, Co-Editors-in-Chief, "Rectifier Bridge," Encyclopedia of Electronics, 2 nd Edition, TAB Professional and Reference Books, 1996, pgs. 708-711.	
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	A267	MAYER, D. et al., "Modelling and Analysis of Lead Acid Battery Operation," Ecole des Mines de Paris, XP010092137, pages 1-3.	

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	A268	MAURACHER, P. & KARDEN, E., "Dynamic Modelling of Lead/Acid Batteries Using Impedance Spectroscopy for Parameter Identification," Journal of Power Sources, Elsevier Sequoia S.A., Lausanne, Ch., Vol. 67 (1997) No. 1-2, pages 69-84, XP004095174 ISSN: 0378-7753, pg. 70, line 11; page 82, line 5, figures 2, 3, 12.		
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	A275	U.S. Appl. No. 10/337,227, Filed 1/06/03, entitled "Current Sensing System" (21 pgs.)		
	A276	U.S. Appl. No. 10/007,320, Filed 10/22/2001, entitled "Battery Monitoring System and Method" (42 pgs.)		
	A277	U.S. Appl. No. 60/539,239, Filed 01/26/04, entitled "System & Method For Monitoring A Battery" (27 pgs.)		

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